

**ABSTRACT OF THE DISCLOSURE**

An inter-processor communication method and apparatus for a mobile communication system. Initially, a transmitting module receives a message transmission request from a connectionless-oriented user. The request includes a message and a destination address of the message. Next, the module determines whether any one of currently existing sockets, whose file descriptors are stored in a socket management database, is connected to the destination address. Finally, the module sends a connection request to a connection manager in order to be connected to a TCP layer if none of the existing sockets are connected to the destination address. As a result, a connectionless-oriented user is able to send/receive a message to/from another user using a transmission control protocol that provides connection-oriented data transmission services.